CLAIMS

What is claimed is:

- A node system of a high-availability cluster, the node system comprising:
 a first register configured to store multi-state status data of the node; and an output port configured to send signals representing the multi-state status data of the node,
 - wherein the multi-state status data of the node includes at least one degraded state.

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- 2. The node system of claim 1, further comprising:
 - an input port configured to receive signals representing multi-state status data of another node;
 - a second register configured to store the multi-state status data from the other node,
 - wherein the multi-state status data of the other node includes at least one degraded state.
- 3. The node system of claim 2, wherein the multi-state status data of the other node further includes a no signal state.
 - 4. The node system of claim 1, wherein the multi-state status data of the node includes multiple levels of degradation.
- 5. The node system of claim 3, wherein the multi-state status data of the other node includes multiple levels of degradation.
 - 6. The node system of claim 2, wherein the input and output ports each couple to a point-to-point communication path for communicating the status data between nodes of the cluster.

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- 7. The node system of 1, further comprising a rule file and an operating system, wherein the operating system applies rules from the rule file to determine the multi-state status of the node.
- 5 8. The node system of claim 7, wherein the rules includes a rule such that receipt of a critical chassis code results in a bad state and another rule such that receipt of a chassis code below critical results in a degraded state.
- 9. A method of status reporting for a node of a cluster, the method comprising applying a set of rules to determine current multi-state status of the node, wherein states of the multi-state status includes a good state, a bad state, and at least one degraded state.
- 15 10. The method of claim 9, further comprising: writing the multi-state status of the node to a first register.
- The method of claim 10, further comprising:
 driving the multi-state status from the first register to a next node via a
 point-to-point communications path.
 - 12. The method of claim 11, further comprising:
 receiving multi-state status from another node; and
 writing the multi-state status from the other node to a second register.
 - 13. The method of claim 12, further comprising:
 reading the statuses from the first and second registers; and
 taking action to maintain high availability of the cluster based on the
 statuses read.
 - 14. The method of claim 11, wherein the status writable into the second register includes a no signal state.

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- 15. The method of claim 9, wherein the multi-state status of the node includes multiple levels of degradation.
- 16. The method of claim 12, wherein the multi-state status from the othernode includes multiple levels of degradation.
 - 17. The method of claim 9, wherein the set of rules includes a rule such that receipt of a chassis code of a critical level results in the bad state and another rule such that receipt of a chassis code of a level below critical results in a degraded state.
 - 18. An apparatus for reporting status from a node of a cluster, the apparatus comprising:

a processor for executing instructions;

memory for holding data;

system interconnect to provide intercommunication between components of the apparatus;

a software module that is configured to apply a set of rules to determine current multi-state status of the node; and

signaling hardware configured to output the multi-state status of the node, wherein states of the multi-state status includes a good state, a bad state, and at least one degraded state.

- 19. The apparatus of claim 18, wherein the signaling hardware is further configured to receive as input the multi-state status from another node of the cluster.
- 20. The apparatus of claim 19, wherein the multi-state status includes multiple levels of degradation.

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